COAA Course Project

By ETD Batch 1 Group 2

Password Validity Checking System

ETD-02

Roll Number	Name	PRN Number
4	Sahil Parekh	12010105
6	Sakshi Kulkarni	12010070
10	Sarthak Bhake	12010005
13	Sejal Sayam	12010928
14	Shajjad Shaikh	12010659

Problem Statement

To write a program in 8086 Assembly Language that checks an input string against a password string stored in memory and outputs a message based on whether the password is matched or not.

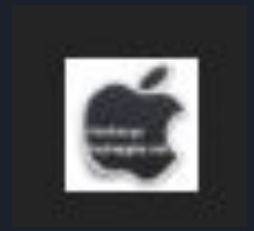
Introduction and Objective

- This is a password validity checking system designed with assembly language used to program the 8086 Microcontroller .
- This program/project accepts a string as input from the user and compares it with the password hardcoded in the program.
- The main objective of this project is to practically implement fundamental concepts of assembly language programming.
- With the application of these concepts we can design small applications like these which helps you in getting more well versed with assembly language programming.

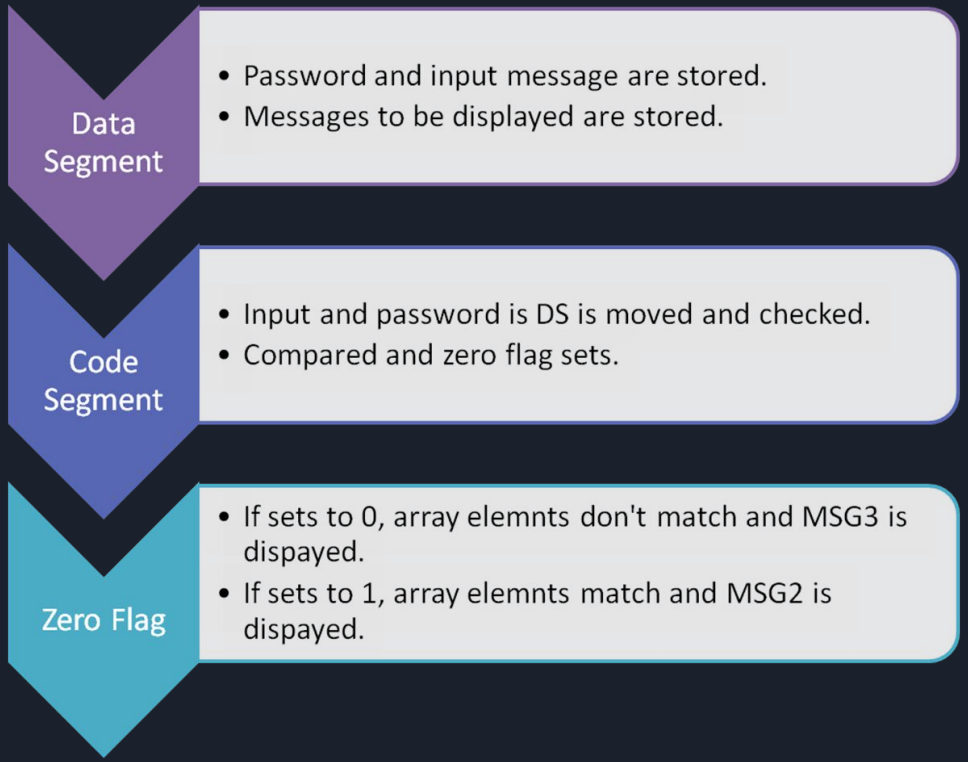
Tools Used

- DOSBox : DOSBox is a free and open-source emulator which runs software for MS-DOS compatible disk operating systems—primarily video games. It was first released in 2002.

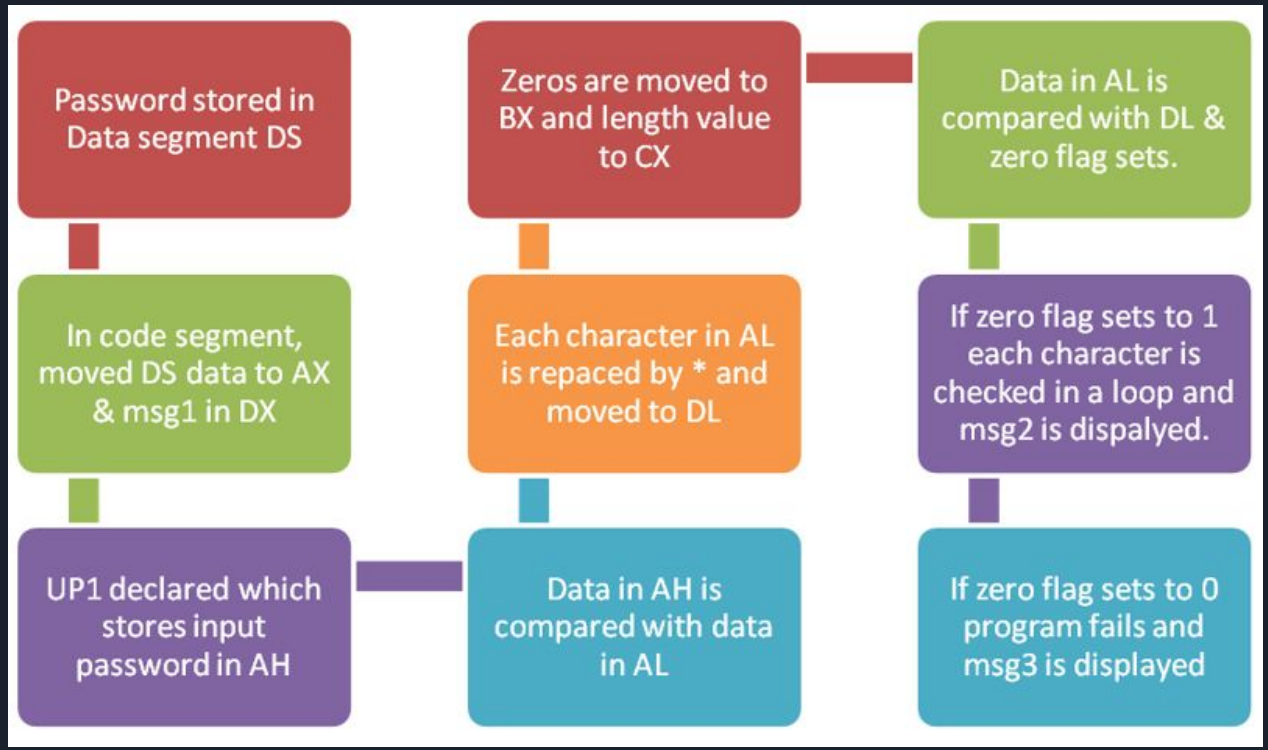
- TASM 1.4 : Turbo Assembler aka tasm is an assembler for software development published by Borland 1989.



Methodology



Flow of the Project



Result

```
C:\TASM>edit project.asm

C:\TASM>tasm project.asm
Turbo Assembler  Version 3.0  Copyright (c) 1988, 1991 Borland International

Assembling file:   project.asm
Error messages:    None
Warning messages:  None
Passes:            1
Remaining memory:  475k


C:\TASM>tlink project.obj
Turbo Link  Version 2.0  Copyright (c) 1987, 1988 Borland International

C:\TASM>project.exe

Enter your password: ****
Correct Password,Welcome!!
C:\TASM>project.exe

Enter your password: ****
Incorrect Password, Please try again!
```

Conclusion

- The given password in data segment is successfully checked and compared with input password by user.
- The result of above operated is displayed using appropriate messages after giving input by user.
- Each time program is terminated with exit code 0 properly without any error.

Thank You!

Project Report

Github Repo